

## SURVEYING SYSTEM

### ABSTRACT OF THE DISCLOSURE

5           An automatic surveying system is provided that  
comprises a surveying device, a collinear-line  
calculating processor, a sighting direction control  
processor, and an object-point searching processor. The  
collinear line calculating processor obtains a collinear  
10 line for an arbitrarily designated point on a schematic  
image of which the positional relation to the surveying  
device is known. The sighting direction control  
processor controls the surveying device to sight along  
the collinear line. The object point searching processor  
15 searches for an object point where the position of the  
object point can be determined as a point on the  
collinear line. This is executed by measuring the  
sighting direction with the surveying device while  
carrying out the sighting direction control process.  
20 Further, a position obtained by the object point  
searching processor coincides with an object point that  
corresponds to the designated point.